

1/8

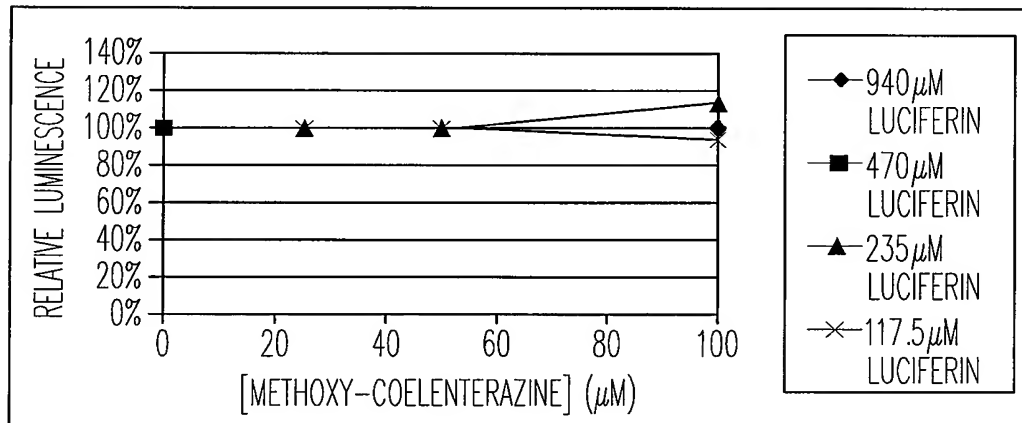


Fig.1

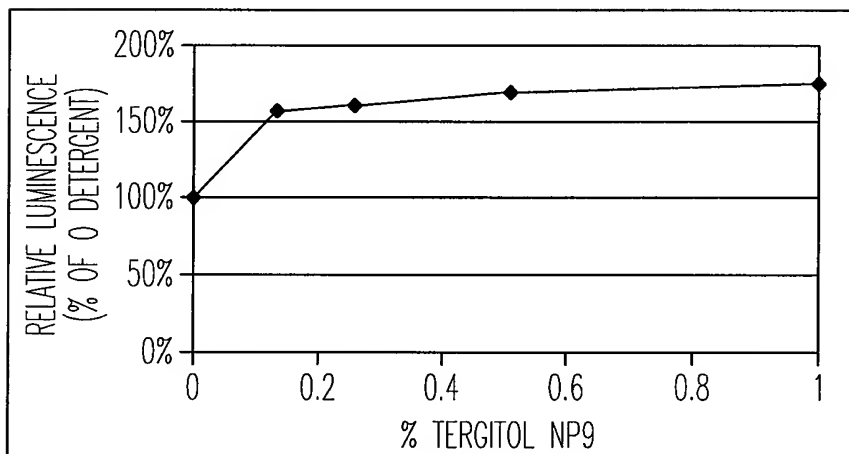


Fig.2

2/8

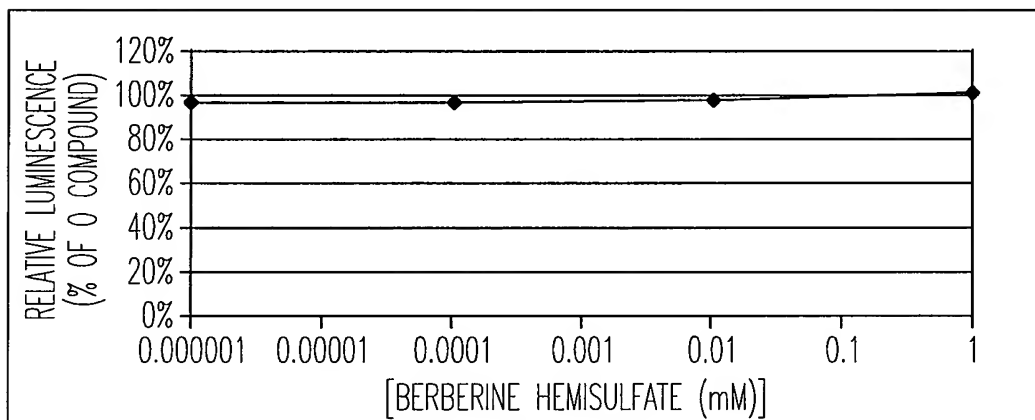


Fig.3

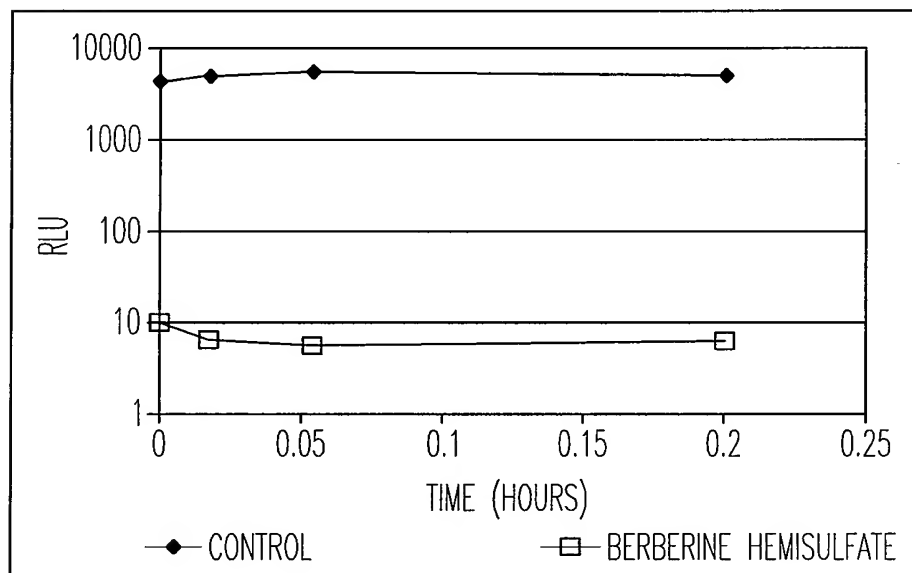


Fig.4

3/8

NON-IONIC DETERGENTS						
DETERGENT NAME	PURITY	MW (MONOMER)	CMC (mM)	CMC CONDITIONS	AGGREG- ATION #	MW (MICELLE)
APO-10	M	218.3	4.6	50 mM Na ⁺	131	28,597
APO-12	M	246.4	0.568	50 mM Na ⁺	2232	549,965
BRIJ-35 (C ₁₂ E ₂₃)	M	1200 (AVG)	0.09	50 mM Na ⁺	40	
C ₈ E ₆	M		9.9	25°C	32	13,000
C ₁₀ E ₆	M	427.1	0.9	50 mM Na ⁺	40	17,084
C ₁₀ E ₈	M	515.1				
C ₁₂ E ₆	M	451.1	0.087	50 mM Na ⁺		
C ₁₂ E ₈ (ATLAS G2127)	M	539.1	0.11	50 mM Na ⁺	123	66,309
C ₁₂ E ₉	M	583.1	0.08	50 mM Na ⁺		
C ₁₂ E ₁₀ (BRIJ 36T)	M		0.2			
C ₁₆ E ₁₂	M		0.0023	25°C	152	117,000
C ₁₆ E ₂₁	M		0.0039	25°C	70	82,000
CYCLOHEXYL-n- ETHYL- β-D-MALTOSE	M	452.5	120	50 mM Na ⁺		
CYCLOHEXYL-n- HEXYL- β-D-MALTOSE	M	508.6	0.56	50 mM Na ⁺		
CYCLOHEXYL-n- METHYL- β-D-MALTOSE	M	438.5	340	50 mM Na ⁺		
n-DECANOYL-SUCROSE	M	496.6	2.5	50 mM Na ⁺		
n-DECYL-β- D-GLUCOPYRANOSIDE	M	320.4	2.2	50 mM Na ⁺		
n-DECYL-β- D-MALTOPYRANOSIDE	M	482.6	1.6	50 mM Na ⁺		

Fig.5A (PRIOR ART)

4/8

n-DECYL- β -D-THIOMALTOSE	M	498.6	0.9	50 mM Na ⁺		
DIGITONIN	M	1229.3			60	70,000
n-DODECANOYL SUCROSE	M	524.6	0.3	50 mM Na ⁺		
n-DODECYL- β -D-GLUCOPYRANOSIDE	M	348.5	0.13	50 mM Na ⁺		70,000
n-DODECYL- β -D-MALTOSE	M	348.5	0.15	50 mM Na ⁺	98	70,000
GENAPOL C-100	P	627 (AVG)				50,000
GENAPOL X-80	P	553 (AVG)	0.06-0.15	50 mM Na ⁺		
GENAPOL X-100	P	641 (AVG)	0.15	50 mM Na ⁺	88	56,000
HECAMEG	M	335.4	19.5	50 mM Na ⁺		
HEPTANE-1,2,3-TRIOL	M	148.2				
n-HEPTYL- β -D-GLUCOPYRANOSIDE	M	278.3	79	50 mM Na ⁺		
n-HEPTYL- β -D-THIOGLUCOPYRANOSIDE	M	294.3	30	50 mM Na ⁺		
LUBROL PX	P	582	0.006	50 mM Na ⁺	110	64,000
MEGA-8 (OCATANOYL-N-METHYLGLUCAMIDE)	M	321.5	58	50 mM Na ⁺		
MEGA-9 (NONANOYL-N-METHYLGLUCAMIDE)	M	335.5	19-25	50 mM Na ⁺		
MEGA-10 (DECANOYL-N-METHYLGLUCAMIDE)	M	349.5	6-7	50 mM Na ⁺		
n-NONYL- β -D-GLUCOPYRANOSIDE	M	306.4	6.5	50 mM Na ⁺		
NONIDET P-10 (NP-10)	P					

Fig.5B (PRIOR ART)

5/8

NONIDET P-40 (NP-40)	M	603.0	0.05-0.3	50 mM Na ⁺	100-155	
n-OCTANOYL- β -D- GLUCOSYLAMINE (NOGA)	M	305.4	80	50 mM Na ⁺		
n-OCTANOYL SUCROSE	M	468.5	24.4	50 mM Na ⁺		
n-OCTYL- α - D-GLUCOPYRANOSIDE	M	292.4	20			
n-OCTYL- β -D- GLUCOPYRANOSIDE	M	292.4	25	50 mM Na ⁺	27	7,895
n-OCTYL- β -D- MALTOPYRANOSIDE	M	454.5	23.4	50 mM Na ⁺		
PLURONIC F-68	P	8400 (AVG)				
PLURONIC F-127	P	12,600 (AVG)				
THESIT		583	0.1	50 mM Na ⁺		
TRITON X-100 (TERT-C ₈ - ϕ -E _{9.6} ; LIKE NP-40)	P	650 (AVG)	0.3	50 mM Na ⁺	140	90,000
TRITON X-100 HYDROGENATED	P	631 (AVG)	0.25	50 mM Na ⁺		
TRITON X-114 (TERT-C ₈ - ϕ -E ₇₋₈)	P	537 (AVG)	0.35	50 mM Na ⁺		
TWEEN 20 (C ₁₂ - SORBITAN-E ₂₀ ; POLYSORBATE 20)	P	1228 (AVG)	0.059	50 mM Na ⁺		
TWEEN 40 (C ₁₆ - SORBITAN-E ₂₀)	P		0.027			
TWEEN 60 (C ₁₈ - SORBITAN-E ₂₀)	P		0.025			
TWEEN 80 (C _{18:1} - SORBITAN-E ₂₀)	P	1310 (AVG)	0.012	50 mM Na ⁺	58	75,980
n-UNDECYL- β -D- MALTOSIDE	M	496.6	0.59	50 mM Na ⁺		

Fig.5C (PRIOR ART)

6/8

IONIC DETERGENTS						
DETERGENT NAME	PURITY ‡	MW (MONOMER)	CMC (mM)§	CMC CONDITIONS	AGGREG- ATION #	MW (MICELLE)
CAPRYLIC ACID, Na ⁺ SALT (n-OCTANOATE)	M	166.2	351			
CETYLPIRIDINIUM CHLORIDE	M	274.0	0.90			
CTAB (CETYLTRIMETHYL- AMMONIUM BROMIDE)	M	364.5	1.0	50 mM Na ⁺	170	62,000
CHOLIC ACID, Na ⁺ SALT	M	430.6	4	50 mM Na ⁺	3	1200
DECANESULFONIC ACID, Na ⁺ SALT	M	244.3	32.6			
DEOXYCHOLIC ACID, Na ⁺ SALT (DOC)	M	414.6	1.5	50 mM Na ⁺	5	2000
DIGITONIN	P	1229	0.087		60	70,000
DODECYLTRIMETHYL- AMMONIUM BROMIDE	M	308.4	14			
GLYCOCHOLIC ACID, Na ⁺ SALT	M	487.6	7.1	50 mM Na ⁺	2.1	1000
GLYCODEOXYCHOLIC- ACID, Na ⁺ SALT	M	471.6	2.1	50 mM Na ⁺	2.1	1000
LAUROYLSARCOSINE, Na ⁺ SALT (SARKOSYL)	M	293.4			2	900
LITHIUM-n-DODECYL SULFATE	M	272.3	6-8	50 mM Na ⁺		
LYSOPHOSPHATIDYL- CHOLINE (16:0)	M	495.7	0.007		186	92,000
SODIUM n-DODECYL SULFATE (SDS, LAURYL SULFATE, Na ⁺ SALT)	M	288.5	2.30	50 mM Na ⁺	84	24,200

Fig.5D (PRIOR ART)

7/8

TAUROCHENODEOXY- CHOLIC ACID, Na ⁺ SALT	M	521.7				
TAUROCHOLIC ACID, Na ⁺ SALT	M	537.7	3.3	20 mM Na ⁺	4	2150
TAURODEHYDROCHOLIC ACID, Na ⁺ SALT	M	531.6				
TAURODEOXYCHOLIC ACID, Na ⁺ SALT	M	521.7	2.7	50 mM Na ⁺	8	4200
TAUROLITHOCHOLIC ACID, Na ⁺ SALT	M	505.7				
TAUROURSODEOXY- CHOLIC ACID	M	521.7				
TETRADECYLTRIMETHYL- AMMONIUM BROMIDE (TDTAB)	M	336.4	3.5	30°C	81	27,000
TOPPS	M	350.5	4.5	50 mM Na ⁺		

Fig.5E (PRIOR ART)

8/8

ZWITTERIONIC DETERGENTS						
DETERGENT NAME	PURITY	MW (MONOMER)	CMC (MM)	CMC CONDITIONS	AGGREG- ATION #	MW (MICELLE)
BIGCHAP	M	878.1	3.4	50 mM Na ⁺	10	8800
CHAPS	M	614.9	6-10	50 mM Na ⁺	10	6150
CHAPSO	M	630.9	8	50 mM Na ⁺	11	9960
DDMAU	M	397.7	0.13	50 mM Na ⁺		
EMPIGEN BB (N- DODECYL- N,N-DIMETHYLGLYCINE)	M	272.0	1.6-2.1	50 mM Na ⁺		
LAURYL DIMETHYLAMINE OXIDE (LDAO, LDAO, EMPIGEN OB)	M	229.4	1-3	50 mM Na ⁺	76	17,000
ZWITTERGENT 3-08	M	279.6	330	50 mM Na ⁺		
ZWITTERGENT 3-10	M	307.6	25-40	50 mM Na ⁺	41	12,600
ZWITTERGENT 3-12 (3-DODECYL- DIMETHYLAMMONIO- PROPANE-1- SULFONATE)	M	335.6	2-4	50 mM Na ⁺	55	18,500
ZWITTERGENT 3-14	M	363.6	0.1-0.4	50 mM Na ⁺	83	30,200
ZWITTERGENT 3-16	M	391.6	0.01- 0.06	50 mM Na ⁺	155	60,700

Fig.5F (PRIOR ART)